



PTO/SB/08A (07-05)
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete If Known	
Application Number	10/603,132
Filing Date	June 24, 2003
First Named Inventor	James L. McNaughton
Group Art Unit	1761
Examiner Name	Arthur L. Corbin
Attorney Docket Number	SU-7273

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² <i>(if known)</i>			
<i>ar</i>	US-254	US-2184888	12-26-1939	Muskat et al.	
	US-255	US-2580808	01-01-1952	Marks et al.	
	US-256	US-2913460	11-17-1959	Brown et al.	
	US-257	US-2929816	03-22-1960	Chamberlain	
	US-258	US-3147254	09-01-1964	Paterson	
	US-259	US-3222276	12-07-1965	Belohlav et al.	
	US-260	US-4770198	09-13-1988	Bergman	
	US-261	US-5209934	05-11-1993	Ekis, et al.	
	US-262	US-5429723	07-04-1995	Atkinson	
	US-263	US-5641520	06-24-1997	Howarth et al.	
	US-264	US-5662940	09-02-1997	Hight et al.	
	US-265	US-5688515	11-18-1997	Kuechler, et al.	
	US-266	US-6069142	05-30-2000	Gaffney, et al.	
	US-267	US-6352725 B1	03-05-2002	Torres et al.	
	US-268	US-6379633 B1	04-30-2002	Garlick	
	US-269	US-6379685 B1	04-30-2002	Richter	
<i>ar</i>	US-270	US-6423267 B1	07-23-2002	Yang et al.	
<i>ar</i>	US-271	US-6436444 B1	08-20-2002	Richter	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ - Kind Code ⁵ <i>(if known)</i>				
<i>ar</i>	FP-43	CN- 1432279	07-30-2003	China Nat. Petroleum Corp.	Abstract Only	
	FP-44	EP- 1080641 A2	03-07-2001	Nalco Chemical Co.		
	FP-45	GB- 644	09-22-1910	Peter		
<i>ar</i>	FP-46	GB- 1358617	07-03-1974	Alsace Mines Potasse		
<i>ar</i>	FP-47	RU- 277157	07-22-1970	Scientific Research		

Examiner Signature	<i>ARTHUR L. CORBIN</i>	Date Considered	<i>8-21-06</i>
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(use as many sheets as necessary)		Filing Date	June 24, 2003		
		First Named Inventor	James L. McNaughton		
		Group Art Unit	1761		
		Examiner Name	Arthur L. Corbin		
Sheet	2	of	6	Attorney Docket Number	SU-7273

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<i>JZ</i>	US-272	US-6652889 B2	11-25-2003	Moore et al.	
	US-273	US-6908636 B2	06-21-2005	Howarth	
	US-274	US-6986910 B2	07-17-2006	Howarth	
	US-275	US-2002/0192110 A1	12-19-2002	Garlick	
	US-276	US-2003/0077365 A1	04-23-2003	Howarth	
	US-277	US-2003/0100254 A1	05-29-2003	Iwai	
	US-278	US-2003/0102271 A1	06-05-2003	Howarth et al.	
	US-279	US-2003/0113402 A1	06-19-2003	Howarth et al.	
	US-280	US-2004/0010024 A1	01-15-2004	Howarth	
<i>JZ</i>	US-281	US-2004/0039353 A1	02-26-2004	Koenig et al.	
<i>JZ</i>	US-282	US-2004/0166136 A1	08-26-2004	Morelli et al.	

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		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
✓	FP-48	WO- 93/04987 A1	03-18-1993	Monsanto Co.		
✓	FP-49	WO- 96/14092 A1	05-17-1996	W.R. Grace & Co.		
✓	FP-50	WO- 96/30562 A1	10-03-1996	Electrocatalytic, Inc.		
✓	FP-51	WO- 97/33567 A1	09-18-1997	Tri Link Unlimited Ltd.		
✓	FP-52	WO- 97/43215 A1	11-20-1997	Bio Lab, Inc.		
✓	FP-53	WO- 01/35745 A1	05-25-2001	Albemarle Corporation		
✓	FP-54	WO- 01/52656 A2	07-26-2001	Albemarle Corporation		
✓	FP-55	WO-01/53215 A1	07-26-2001	Albemarle Corporation		
✓	FP-56	WO- 02/062141 A1	08-15-2002	Albemarle Corporation		
✓	FP-57	WO 03/011033 A1	02-13-2003	Solution Biosciences, Inc.		
✓	FP-58	WO 04/57966 A1	07-15-2004	Solution Biosciences Inc.		

Examiner Signature	ARTHUR L. CRIBBIN	Date Considered	D-21-46
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Art Unit	1761
Examiner Name	Arthur L. Corbin

Attorney Docket Number

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	L-131	Affidavit of Shunong Yang, William F. McCoy and Anthony W. Dallmier Under 37 C.F.R. §1.13; presumably made public on Sept. 11, 2001, 13-pages. This Affidavit is contained in the File Wrapper of US Application No. 09/518,435 now US 6,287,473, issued Sept. 11, 2001.	
	L-132	Beihoffer, Jon et al., "Identification and Determination of the Isomeric Bromo-and/or Chloro-Substituted 1,3-Dihalo-5,5-Dimethylhydantoins Used in Disinfectants and Molluscicides", Journal of AOAC International, Vol 79, No. 4, 1996, pgs 823-828.	
	L-133	Bromicide Microbiocide, A Safer Approach to Water Management, Great Lakes Chemical Corporation Brochure, 1993, 3 pgs	
	L-134	Büchner, W., et al., Industrial Inorganic Chemistry, p. 180 (1989)	
	L-135	Chemical Engineers Handbook, John H. Perry editor, Fourth Edition, McGraw-Hill Book Company, 1963, pgs 8-59 - 8-64	
	L-136	Cotton, F.A., et al., Advanced Inorganic Chemistry, Sixth Edition, p. 566 (1999)	
	L-137	Frost, A.A., et al., Kinetics and Mechanism: A Study of Homogeneous Chemical Reactions, p. 23 (1953)	
	L-138	Goncharuk, E.I., et al., "Toxicological-Hygienic Evaluation of a New Bactericidal Preparation, Dibromodimethylhydantoin (**Dibromantine***) used for Water Disinfection in Swimming Pools", Gig. Sanit. (1971), 36(5), ppg 96-99.	X
	L-139	Harp, Daniel L., Current Technology of Chlorine Analysis for Water and Wastewater, Technical Info Series, Booklet No. 17, 2002, 34 pgs.	
	L-140	Kristoffersen, T. and I.A. Gould, "Effect of Sodium Bromide on the Bactericidal Effectiveness of Hypochlorite Sanitizers of High Alkalinity," Journal of Dairy Science (1958) 41: 950-955.	
	L-141	Kruse, C.W., et al., "Halogen Action on Bacteria, Viruses, and Protozoa," in Proc. Natl. Specialty Conference on Disinfection, pp113-136 (New York, NY: ASCE, 1970).	
	L-142	Krycer et al., "An Evaluation of Tablet Binding Agents Part II. Pressure Binders", Powder Technology, 1983, Vol. 34, ppg. 53-56.	
	L-143	Kuechler, T.C., "A Towerbrom® Progress Report, (McLean, VA: Association of Water Technologies, 1993), ppg 1-15.	
	L-144	Kuechler, T.C., et al., "Development of Monsanto's Towerbrom® Microbiocide, a New Bromine Microbiocide for Recirculating Water Systems," (McLean, VA: Association of Water Technologies, 1991), 1991 AWT Conference, pg 1-23	
	L-145	Larson, D.S. et al., "Improved Microbiological Control Using Halogen Donors in a Pasteurizer," MBAA Technical Quarterly (1993) 30: 173-178.	
	L-146	Legionellosis: Guidelines for Control of Legionnaires' Disease," (Melbourne, Australia: Health Department Victoria, 1989, (reprinted in 1999), 9 pages.	

Examiner Signature

Arthur L. Corbin

Date Considered

8-21-06

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First Named Inventor	James L. McNaughton
Art Unit	1761
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JL	L-147	"Legionellosis Guideline: Best Practices for Control of Legionella," (Houston, TX: Cooling Tower Institute, February 2000), 8 pages.	
	L-148	Lewin, M. and M. Avarahami, "The Decomposition of Hypochlorite-Hypobromite Mixtures in the pH Range 7-10," Journal of the American Chemical Society," (1955) 77: 4491-4498.	
	L-149	Ludyanskiy, M.L. and F.J. Himpler, "The Effect of Halogenated Hydantoins on Biofilms," paper 405 (Corrosion 97, Houston, TX: NACE International, 1997), ppg 405/1 - 405/11.	
	L-150	MaCalady et al., "Sunlight-Induced Bromate Formation in Chlorinated Seawater", Science, 1977, vol. 195, ppg 1335-1337.	
	L-151	McCall, E., J.E. Stout, V.L. Yu, and R. Vidic, "Efficacy of Biocides against Biofilm-Associated Legionella in a Model System," paper IWC 99-19 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1999), 7 pages.	
	L-152	McCarthy, J.A., "Bromide & Chlorine Dioxide As Water Disinfectants"; Journal of the New England Water Works Association (1944) 58: 55-68.	
	L-153	McCoy, W.F., et al., "Strategies Used in Nature for Microbial Fouling Control: Application for Industrial Water Treatment," paper 520 (Houston, TX: NACE International, 1998).	
	L-154	McNamee, L., "Efficacy of Hypochlorite vs. Hypobromite in the Removal of a <i>Pseudomonas aeruginosa</i> Biofilm," summer intern report (Bozeman, MT: Montana State University, Center for Biofilm Engineering, 2000). ppg 1-23.	
	L-155	Merck Index, 10 th Edition, pg 7581	
	L-156	Miki, W., K. Kon-ya, and S. Mizobuchi, "Biofouling and Marine Biotechnology: New Antifoulants from Marine Invertebrates," Journal of Marine Biotechnology (1996) 4: 117-120.	
	L-157	Mills, J.F., "Interhalogens and Halogen Mixtures as Disinfectants," in Disinfection-Water and Wastewater, J.D. Johnson, ed., pp 113-143 (Ann Arbor, MI: Ann Arbor Science, 1975).	
	L-158	"Minimizing the Risk of Legionellosis Associated with Building Water Systems," ASHRAE Guideline 12-2000 (Atlanta, GA: ASHRAE, 2000), 19 pages.	
	L-159	Moore, R.M., et al., "Use of a New Bromine-based Biocide in a Medium-Size Cooling Tower," paper IWC-97-51 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1997), 6 pages.	
	L-160	Moore, R.M., W.C. Lotz, and V.R. Perry, "Activated Sodium Bromide-Artificial Marsh Treatment: A Successful Plant-Wide Program," paper IWC-95-61 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1995). 12 pgs.	
	L-161	Nalepa, C.J., J.N. Howarth, and R.M. Moore, "A New Single-Feed Liquid Bromine Biocide for Treatment of Cooling Water," Presented at the AWT 1999 Annual Conference, (McLean, VA: Association of Water Technologies, 1999), 17 pages.	
JL	L-162	Nalepa, C.J., H. Ceri, and C.A. Stremick, "A Novel Technique for Evaluating the Activity of Biocides Against Biofilm Bacteria," paper 00347 (Corrosion 2000, Houston, TX: NACE International, 2000), ppg 00347/1 - 00347/19.	
Examiner Signature	A RTHUR L. CORBIN	Date Considered	8-21-06

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<i>AS</i>	L-163	Nalepa, C.J., et al., "Case Study: Minimization of Corrosion Using Activated Sodium Bromide in a Medium-Size Cooling Tower," paper 485 (Corrosion 96 NACE International Annual Conference and Exposition, Houston, TX: Nace International, 1996), 485/1 - 485/12.	
	L-164	Nalepa, C.J., et al., "The Activity of Oxidizing Biocides towards Legionella pneumophila and the Impact of Biofilms on its Control," paper 01278 (Houston, TX: NACE International, 2001, 21 pages.	
	L-165	Nalepa, C.J., et al., "Case Study: A Comparison of Bromine-Based Biocides in a Medium-Size Cooling Tower," paper TP98-09 (Houston, TX: Cooling Tower Institute, 1998), 22 pages.	
	L-166	Nalepa, C.J., J.N. Howarth, and F.D. Azarnia, "Factors to Consider When Applying Oxidizing Biocides in the Field," paper 02223 (Houston, TX: NACE International, 2002), 20 pages.	
	L-167	Nelson, G.D. "Chloramines and Bromamines," in Kirk Othmer Encyclopedia of Chemical Technology, Vol. 5, pp 565-580 (New York, NY: John Wiley and Sons, 1979).	
	L-168	Palin, A.T., "The Determination of Free and Combined Chlorine in Water by the Use of Diethyl-p-phenylene diamine," Journal of the American Water Works Association (1957) 49: 873-880.	
	L-169	Peterson, J.C., "Practical Air Washer Treatment in Synthetic Fiber Manufacturing Plants," paper IWC-87-39 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1987), pgs 366-370	
	L-170	Ren, D., J.J. Sims, and T.K. Wood, "Inhibition of Biofilm Formation and Swarming of <i>Bacillus subtilis</i> by (5Z)-4-Bromo-5-(Bromomethylene)-3-Butyl-2(5H)-Furanone," Letters in Applied Microbiology (2002) 34: 293-299.	
	L-171	Regulatory Advisory, Waterborne Pathogens - Compliance with Joint Commission on Accreditation of Healthcare Organizations Requirements, web address www.ashe.org/media/water.html , visited 6/12/2002, 9 pages.	
	L-172	Rideal, E.K. and U.R. Evans, "The Effect of Alkalinity on the Use of Hypochlorites," Journal of the Society of the Chemical Industry (1921) 40: 64R-66R	
	L-173	Rzepa, H.S., "Elemental and Molecular Heritage: An Internet-Based Display," Molecules (1998) 3: 94-99.	
	L-174	Shilov, E.A. and J.N. Gladchikova, "On the Calculation of the Dissociation Constants of Hypohalogenous Acids from Kinetic Data," Journal of the American Chemical Society (1938) 60: 490-491.	
	L-175	Smith, A., et al., "Bromine vs. Gaseous Chlorine: A Comprehensive Review of Case Histories," paper 637 (Corrosion 93, NACE Annual Conference and Corrosion Show, 1993), ppg 637/1 - 637/12.	
	L-176	Sook, B.R., T.F. Ling, and A.D. Harrison "A New Thixotropic Form of Bromochlorodimethylhydantoin: A Case Study," paper 03715 (Corrosion 2003, Houston, TX: NACE International, 2003), ppg 1-16.	
<i>✓</i>	L-177	Spurrell, C. and J.S. Clavin, "Solid Halogen Donor Economically Answers the Challenge of SARA Title III and Corrosion Concerns," paper 474 (Corrosion 93, NACE Annual Conference and Corrosion Show, 1993), ppg 474/1 - 474/15.	
<i>AC</i>	L-178	Sullivan, P.J. and B.J. Hepburn, "The Evolution of Phosphonate Technology for Corrosion Inhibition," paper 496 (Houston, TX: NACE International, 1995), ppg 496/1 - 496/13.	

Examiner Signature

ARTHUR L. CORBIN

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OTHER PRIOR ART -- NON-PATENT LITERATURE DOCUMENTS

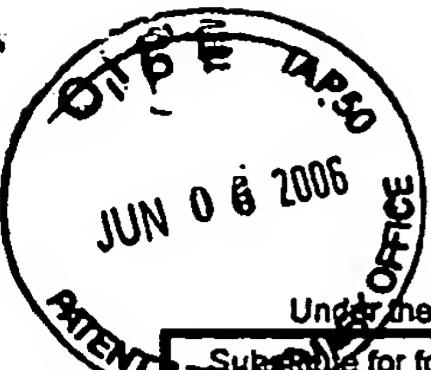
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Arc	L-179	Sweeney, P., M. Ludensky, and O. Barokhov, "Mill Performance of a Brominated Methylethylhydantoin Slimicide," pp 437-447, Proceedings of the 1999 TAPPI Papermakers Conference (Norcross, GA:: TAPPI, 1999).	
	L-180	Tanner, F.W. and G. Pitner, "Germicidal Action of Bromine," Proceedings of the Society for Experimental Biology and Medicine (1939) 40: 143-145.	
	L-181	Thomas, W.M., J. Eccles, and C. Fricker, "Laboratory Observations of Biocide Efficiency against Legionella in Model Cooling Tower Systems," paper SE-99-3-4 (Atlanta, GA: ASHRAE Transactions, 1999), ppg 1-17.	
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✓	L-191	Zhang, Z. and J.V. Matson, "Organic Halogen Stabilizers: Mechanisms and Disinfection Efficiencies," paper TP89-05 (Houston, TX: Cooling Tower Institute, 1989), pgs 1-19.	
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Examiner Signature	ARTHUR L CORBIN	Date Considered	8-21-06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known	
Application Number	10/603,132
Filing Date	June 24, 2003
First Named Inventor	James L. McNaughton
Group Art Unit	1761
Examiner Name	Arthur L. Corbin
Attorney Docket Number	SU-7273

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² -Number ³ - Kind Code ⁴ (if known)			
PL	US-230	US-1995639	03-26-1935	Henderson	
	US-231	US-2443429	06-15-1948	Marks	
	US-232	US-2662855	09-07-1950	Kamlett	
	US-233	US-2815311	12-03-1957	Ellis, et al.	
	US-234	US-3519569	07-07-1970	Diaz	
	US-235	US-3850833	11-26-1974	Koceich, et al.	
	US-236	US-3958020	05-18-1976	DeVries et al.	
	US-237	US-3961086	01-06-1976	Turbak et al.	
	US-238	US-4199602	04-22-1980	Lentsch	
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	US-240	US-4250910	02-17-1981	King	
	US-241	US-4258056	03-24-1981	Lentsch	
	US-242	US-4297224	10-27-1981	Macchiarolo, et al.	
	US-243	US-4362753	12-07-1982	Barta	
	US-244	US-4376787	03-15-1983	Lentsch et al.	
PL	US-245	US-4420394	12-13-1983	Lewis	
PL	US-246	US-4469848	09-04-1984	Hooper et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ² -Number ³ - Kind Code ⁴ (if known)				
PL	FP-42	WO-8103110	11/12/1981	Barta		

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<p>Substitute for form 1449/PTO</p> <h1>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <p>(use as many sheets as necessary)</p>				<p>Complete if Known</p> <table border="1"> <tr> <td>Application Number</td> <td>10/603,132</td> </tr> <tr> <td>Filing Date</td> <td>June 24, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>James L. McNaughton</td> </tr> <tr> <td>Group Art Unit</td> <td>1761</td> </tr> <tr> <td>Examiner Name</td> <td>Arthur L. Corbin</td> </tr> <tr> <td colspan="2">Attorney Docket Number</td> </tr> </table>		Application Number	10/603,132	Filing Date	June 24, 2003	First Named Inventor	James L. McNaughton	Group Art Unit	1761	Examiner Name	Arthur L. Corbin	Attorney Docket Number	
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Sheet	2	of	5	SU-7273													

U.S. PATENT DOCUMENTS

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Sheet	3	of	5	Attorney Docket Number	SU-7273
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Complete if Known

Application Number	10/603,132
Filing Date	June 24, 2003
First Named Inventor	James L. McNaughton
Art Unit	1761
Examiner Name	Arthur L. Corbin

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
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Filing Date	June 24, 2003
First Named Inventor	James L. McNaughton
Art Unit	1761
Examiner Name	Arthur L. Corbin
Attorney Docket Number	SU-7273

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<i>AC</i>	L-110	Enzien, M. and B. Yang, "On-line Performance Monitoring of Treatment Programs for MIC Control," paper 01279 (Corrosion 2001, Houston, TX: NACE International, 2001), 13 pages.	
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	L-122	Johannesson, J.K., "The Bromination of Swimming Pools," American Journal of Public Health (1960) 50: 1731-1736.	
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<i>AC</i>	L-126	Kabler, P.W., "Relative Resistance of Coliform Organisms and Enteric Pathogens in the Disinfection of Water with Chlorine," J. American Water Works Association (1951) 43: 553-560.	

Examiner Signature	<i>Arthur L. Corbin</i>	Date Considered	8-21-06
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